

# 2007 Annual Convention Advance Program



美洲中國工程師學會大紐約分會  
Chinese Institute of Engineers  
- USA

Greater New York Chapter

<http://www.cie-gnyc.org>

November 10, 2007 (Saturday)  
Newark Airport Marriott Hotel  
Newark, NJ 07114

## Driving Directions:

1. From the Newark International Airport, Newark, NJ or **I-78 East**, take **Exit 57**
2. Stay in **right lane** to Newark Airport
3. Stay in **left lane** to enter the **main terminal area**. DO NOT get off to the south and north area.
4. Stay in the **middle lane**, the lane splits off on the left to the Car Rental, etc. area.
5. After passing the split, stay in the **left lane**. Before entering terminal A, follow the left lane sign towards **Long-term Parking/Monorail/Marriott Hotel**.
6. Get off and proceed to Marriott Hotel.

**Note:** The Newark Airport Marriott Hotel is in the middle of Newark International Airport parking lot and is surrounded by three terminals A, B and C. Phone number: (973) 623-0006.

## Parking Information:

Self parking for guests attending 11/10 event is free.

## Registration Form:

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Last Name \_\_\_\_\_ First Name \_\_\_\_\_  
Chinese Name \_\_\_\_\_  
Home Address \_\_\_\_\_ Zip \_\_\_\_\_  
Phone \_\_\_\_\_ (O) \_\_\_\_\_ (H)  
Email \_\_\_\_\_  
Affiliation \_\_\_\_\_

	Register by 11/7	Register after 11/7	Student Reg by 11/7
Reg. Fees	\$0	\$0	\$0
Lunch Banquet	\$30	\$40	\$15
Dinner Banquet	\$50	\$60	\$25
Donation to CIE	\$__	\$__	\$__
Membership fee	\$20	\$20	\$0
Life Member Fee	\$200	N/A	N/A
Corporate Member	\$500	N/A	N/A
Total	\$__	\$__	\$__

Please register online at <http://www.cie-gnyc.org> and make your check payable to **CIE-USA/GNYC** at the convention site.

**Convention Theme:  
90 Years and Beyond – Technology for  
Quality of Life and Prosperity**

**Program (11/10/2007)**

- 8:30 am Registration
- 9:00 am Opening Remarks – Dr. H. Jonathan Chao, Convention Chairperson
- 9:05 am State of the Institute – Dr. Chein-Chi Chang, President, CIE-USA/GNYC
- Keynote Speech – Dr. Tse Wen Chang, Academia Sinica, Taiwan, "Anti-IgE for Severe Asthma and Allergy: from bench to clinics to commercialization"
- Keynote Speech – Dr. James Hwang, Lehigh University, "Nintendo Wii and Micro-electro-mechanical Systems"
- 10:30 am **Coffee Break**
- 11:00 – Parallel Sessions
- 12:30 pm Session I – IT Applications
- Chair – Dr. Yang Guo, Thomson and Yong Liu, Polytechnic Univ
- Dr. Lexing Xie, IBM Research, " Large-scale multimedia ontology and visual recognition"
- Dr. Guangzhi Li, AT&T Labs Research, "On IPTV network design"
- Dr. Zhu Liu, AT&T Labs Research, "Video Content Personalization for IPTV Services"
- Dr. Yong Liu, Polytechnic University, "Hierarchically Clustered P2P Streaming System"
- Session II – Wireless Networks
- Chair – Dr. Qi Bi, Alcatel-Lucent, Bell Labs
- Dr. Hongya Ge, NJIT, "Next Generation Wireless Systems Using Subspace Techniques"
- Dr. Kevin Lu, Telcordia, "Communication

Systems for Safe and Secure Buildings"

Dr. Guang Li, Alcatel-Lucent, "Challenges of Deploying High Speed Wireless Networks"

Dr. Xiang Ma, Bell Labs, Alcatel-Lucent, "Overview of In-building Wireless Coverage Solutions"

Session III – Biomedicine

Chair – Dr. Tsang-Bin Tseng, Clinical Pharmacology, AstraZeneca

Dr. Zhongda Zhang, Chemistry Department, Biomol International, "The Role of Medicinal Chemistry in Drug Discovery: Principles and Practice"

Dr. Hua Zhong, Chemical and Pharmaceutical Development, Johnson & Johnson, "Chemical Process R&D and API Manufacturing"

Dr. Chi-Ming Lee, Translational Science, AstraZeneca, "Overview of Preclinical New Drug Development"

Dr. Tsang-Bin Tzeng, Clinical Pharmacology, AstraZeneca, "Overview of Clinical New Drug Development"

Session IV – Innovation and Entrepreneurship

Moderator– Dr. Sean Wang, President, ITRI, Intl.

Panelists:

Liang Chen, President, Stellar Services, NY  
Yuhmin Hwang, President, AAION Electronics, NJ

Dr. Chris Pak, President, Molecular Targeting Tech

**12:30 –** Luncheon

**2:30 pm** Keynote Speech – **TBD**

2:30 – Parallel Sessions

4:00 pm Session V – Data Networks

Chair – Dr. Ying Cheng, AT&T

Hui Chen, Telecommunications Plan & Research Institute of MII (Ministry of Information Industry), "Telecommunications Industry in China"

Dr. Kang Xi, Polytechnic University, "ESCAP: Efficient SCan for Alternate Paths to Achieve IP Fast Rerouting"

Yung Yu, AT&T Labs, "Large IP Network Design"

Emily Hu, Alcatel-Lucent, Bell Labs, "Fixed and Mobile Convergence"

Session VI – System on Chips

Chair – Deepak Kataria (LSI)

Dr. Tapan J. Chakraborty, Alcatel-Lucent, "System On Chip (SoC) / IP Technology: Opportunities & Challenges"

Dr. Nagi Naganathan, LSI Storage Products Group, "SoC Design – Getting in Right"

Dr. Zoran Miljanic, WINLAB, Rutgers University, "SoC Requirements for Next Generation Wireless Networking Devices"

Dr. Garrett Rose, Polytechnic University, Brooklyn, NY, "High Performance Computing Systems"

Session VII – Bio-Engineering

Chair – Chris Pak, Molecular Targeting Technologies

Dr. Chang Chang, Drexel University, " X-ray Microscopy for Biological Applications "

Dr. Chin-Turn Tan, New York School of Medicine, NYU, "Cochlear Implant: A new Tool to Select Frequency-to-Electrode Maps"

Dr. Ivan Selesnick, Polytechnic University, "Noise Reduction for Bio-images by Wavelet-Based Filtering"

Dr. Wan Y. Shih, Drexel University, "Array Piezoelectric Microcantilever Sensors for Label-free, Real-time Disease Detection and NIR Quantum Dots for In-vivo Disease Imaging"

Session VIII – Financial Services

Chair – Ping Feng, Managing Director, Lehman Brothers

Thomas Huang, Managing Director, Natixis North America, "From Numbers to People"

Hong Li, Managing Director, Citigroup, "From Math to Quant -- A Career Development Perspective"

Shanquan Li, Managing Director / Senior Portfolio Manager, Oppenheimer Funds, Inc., "Resources Shortage Will be a Big Challenge in the 21st Century"

Qing Lin, Senior Vice President, American Express, "Data, Information and Decision Analytics in Credit Card Industry -- A History of Engineering Approach"

4:00 – Coffee Break  
4:30 pm

4:30 – Forum: Technology Trends for Quality-of-Life and Prosperity  
6:00 pm Moderator – Dr. Pau Lin, AT&T

Panelists:

Dr. Sean Wang, President, ITRI International

Dr. Chi-Ming Chen, AT&T

Dr. Zhaohui Cai, AstraZeneca Pharmaceuticals

Dr. Qi Bi, Alcatel-Lucent, Bell Labs

Mr. Julian Lee, Taiwan Trade Center New York

6:00 – Banquet

9:30 pm Keynote Speech – Prof. James Wei,